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Date: January 22, 2004

Sonia V. McVean  
Sonia V. McVean

PATENT  
50626.54

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mohan KIRLOSKAR et al. Serial No.: 10/647,696 Filing Date: August 25, 2003 For: IMPROVED BALL GRID ARRAY PACKAGE AND PROCESS FOR MANUFACTURING SAME	Art Unit: 2813  Examiner: Unknown
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COMMENTARY RE INFORMATION DISCLOSURE STATEMENT

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Dear Sir:

In accordance with 37 CFR §1.56, and in recognition of their duty to disclose to the United States Patent and Trademark Office relevant information known to be material to patentability, Applicants herewith submit a copy of the prior art 1-20 listed on the attached Information Disclosure Statement (Form PTO-1449). Applicants did not submit a copy of the prior art 21-24, as they are U.S. Applications currently pending. The statement is not a representation that all of the information cited is necessarily effective as prior art against the application.

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U.S. Application No. 10/647,696  
January 22, 2004  
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Applicants respectfully request that the disclosed reference be made of record in the subject application.

Respectfully submitted,

Date: January 22, 2004



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Sheet 1 of 1

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 50626.54	SERIAL NO. 10/647,696
	APPLICANTS: Mohan KIRLOSKAR et al.	
	FILING DATE August 25, 2003	GROUP 2813

## U.S. PATENT DOCUMENTS

*INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCL.	FILING DATE
		US-2001/0015492 A1	Aug. 23/01	Akram et al.	257	706	Apr. 16/01
		US-2002/0006718 A1	Jan. 17/02	Distefano	438	617	Sep. 10/01
		US-2002/0185734 A1	Dec. 12/02	Zhao et al.	257	737	Jul. 25/02
		US-2003/0034569 A1	Feb. 20/03	Caletka et al.	257	796	Oct. 18/02
		5,172,213	Dec. 15/92	Zimmerman	257	796	May 23/91
		5,311,060	May 10/94	Rostoker et al.	257	796	Jul. 28/92
		5,339,216	Aug. 16/94	Lin et al.	361	707	Mar. 2/93
		5,493,153	Feb. 20/96	Arikawa et al.	257	796	Nov. 26/93
		5,610,442	Mar. 11/97	Schneider et al.	257	787	Mar. 27/95
		5,639,694	Jun. 17/97	Diffenderfer et al.	437	209	Jun. 7/95
		5,650,663	Jul. 22/97	Parthasarathi	257	706	Jul. 3/95
		5,679,978	Oct. 21/97	Kawahara et al.	257	697	Oct. 24/94
		5,705,851	Jan. 6/98	Mostafazadeh et al.	257	675	Jun. 28/95
		5,986,885	Nov. 16/99	Wyland	361	704	Apr. 8/97
		6,236,568	May 22/01	Lai et al.	361	704	Dec. 22/99
		6,251,706	Jun. 26/01	Panicola	438	122	Apr. 23/98
		6,323,068	Nov. 27/01	Lai et al.	438	122	Mar. 2/01
		6,414,385	Jul. 2/02	Huang et al.	257	690	Dec. 30/99
		6,462,405	Oct. 8/02	Lai et al.	257	675	Jul. 18/01
		6,525,421	Feb. 25/03	Chia et al.	257	730	May 1/02

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCL.	TRANSLATION	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
EXAMINER:				DATE CONSIDERED:				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if in conformance and not considered. Include copy of this form with every communication with applicant.

PTO/SB/08A (04-03)

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	<b>10/647,696</b>
				Filing Date	<b>August 25, 2003</b>
				First Named Inventor	<b>Mohan KIRLOSKAR et al.</b>
				Art Unit	<b>2813</b>
				Examiner Name	
				Attorney Docket Number	<b>50626.54</b>
Sheet	<b>2</b>	of	<b>2</b>		

[illegible]

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PAGE 21/21 \* RCVD AT 9/20/2004 6:45:58 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-1/1 \* DNIS:8729306 \* CSID:7033855340 \* DURATION (mm-ss):07-04

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